

**CURRICULUM VITAE**  
**WALTON MALCOLM BYRNES**  
(last modified 6-27-23)

**Office Address:** Department of Biochemistry and Molecular Biology  
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**Website:** <https://www.researchgate.net/profile/Walton-Byrnes>  
**Faculty Profile:** <https://profiles.howard.edu/walton-byrnes>

**EDUCATION AND TRAINING**

1994-96 Postdoctoral Training in Molecular Medicine, Cornell University, Ithaca, NY  
1994 Ph.D. in Biochemistry, Louisiana State University, Baton Rouge  
1981 B.S. in Chemistry, Xavier University of Louisiana, New Orleans

**RESEARCH AND SCHOLARLY INTERESTS**

- Kinetics and allosteric regulation of bacterial and archaeal metabolic enzymes, including phosphofructokinase (a glycolytic enzyme) and anthranilate synthase (a chorismate-utilizing tryptophan biosynthetic enzyme)
- The history of biology, particularly the scientific legacy of the early twentieth-century biologist Ernest Everett Just
- Bioethics; climate change and ecological ethics; the science-religion debate

**EMPLOYMENT AND RESEACH EXPERIENCE**

2008-present **Associate Professor**, Department of Biochemistry and Molecular Biology, College of Medicine, Howard University, Washington, DC; member of graduate faculty since 2002

2010 (spring) **Visiting Researcher**, Kennedy Institute of Ethics, Georgetown University, Washington, DC

2001-2008 **Assistant Professor**, Department of Biochemistry and Molecular Biology, Howard University College of Medicine, Washington, DC

- 1999-2001     **Research Scientist**, Biochemical Science Division, Chemical Science and Technology Laboratory, National Institute of Standards and Technology (NIST), Gaithersburg, MD
- 1996-1999     **Assistant Professor**, Chemistry Department, University of Louisiana at Lafayette
- 1994-1996     **Postdoctoral Fellow** in the laboratory of Dr. Robert E. Oswald, Department of Molecular Medicine, College of Veterinary Medicine, Cornell University, Ithaca, NY
- 1988-1994     **Doctoral Candidate** in the laboratory of Dr. Simon H. Chang, Department of Biological Sciences, Louisiana State University, Baton Rouge
- Dissertation Title: *The Structural Basis for Kinetic and Allosteric Differences between Two Bacterial Phosphofructokinases*
- 1984-1988     Chemistry **Instructor** at St. John's College in Belize City, Belize, Central America (1984-1986); Chemistry and Physics **Teacher** at Gonzaga College High School in Washington, DC (1986-1988)
- 1982-1984     **PhD Student** in physical chemistry (1982-1983) and biochemistry (1983-1984), University of Illinois at Champaign-Urbana; **Teaching Assistant** for general chemistry lecture and biochemistry laboratory courses at University of Illinois
- 1980-1982     Undergraduate Summer **Researcher** in Theoretical Biophysical Chemistry at Argonne National Laboratory in Argonne, IL (1980); Analytical and organic chemistry **Laboratory Instructor** at Xavier University of Louisiana in New Orleans (1981-1982)

## COURSES TAUGHT (OR TEAM-TAUGHT)

- *Molecules and Cells—Unit 1A*, first-year medical course, 2006-present, fall semesters
- *Biochemistry for the Pharmaceutical Sciences*, first-year pharmacy course, Fall 2013, course coordinator
- *Biomedical Sciences II* (biochemistry integrated with microbiology), first-year pharmacy course, 2004 - 2011, fall semesters; course co-coordinator 2011 - 2012
- *Biochemistry* for PharmD majors, first-year pharmacy course, 2002 – 2004 (fall)
- *Dental Biochemistry*, first-year dental course, 2010 – present (fall); director from 2015 to 2020
- *General Biochemistry*, graduate course, 2004 – present (fall)
- *Biochemistry Laboratory*, graduate course, 2011 – present (fall or spring)
- *Orientation to Research*, graduate course, since fall 2002
- *Principles of Metabolic Regulation*, graduate course, 2002 - present, every other spring semester; coordinator since 2011

- *Enzymology*, graduate course, 2002 – present, every other spring semester; coordinator since 2011
- *Directed Research*, graduate course, since 2002, spring and fall semesters
- *Seminar in Biochemistry*, series and graduate course; coordinator from Fall 2004 to Spring 2006
- Taught general chemistry, chemistry for nursing students, and biochemistry lecture and laboratory courses at the University of Louisiana at Lafayette, 1996 - 1999
- Taught organic and analytical chemistry laboratory courses at Xavier University of Louisiana, 1981 - 1982

## RESEARCH GRANTS

1. NIH MBRS-SCORE Grant (SC3 mechanism); Grant PI, W. Malcolm Byrnes; Title: Characterization and Engineering of Fused Chorismate-Utilizing Enzymes; Award Number SC3 GM083752-01. 6/2008 – 5/2013; Total direct costs: \$300,000.
2. Two-year NIH Supplemental Grant. PI, W. Malcolm Byrnes; Title: Administrative Supplement to Existing SC3 Grant (1 SC3 GM 083752 01); Award Number SC3 GM083752-02S1. 10/2009 – 9/2011; Total direct costs: \$122,016
3. NSF Symposium Grant; PI, W. Malcolm Byrnes and Co-PI, Stuart A. Newman of New York Medical College; Title: From Cells to Developmental Systems and Beyond: A Symposium Honoring Ernest Everett Just; Award Number IOS-0830114. 9/2008 – 8/2009; Total direct costs: \$18,000
4. Five-year NIH RCMI Pilot Project grant; PI, W. Malcolm Byrnes, PhD; Title: Structural and Functional Characterization of Aminoglycoside-6-Phosphotransferases; Overall RCMI grant PI Robert Taylor, MD, PhD; Award Number G 12 RR 003048. 6/2003 – 5/2008; Total direct costs: \$362,463
5. Three-year NIH MBRS/SCORE Supplemental Project Grant; PI, W. Malcolm Byrnes, PhD; Title: Characterization of Phenazine Biosynthetic Enzyme PhzE and Its Homolog from *Streptomyces venezuelae*; Overall MBRS/SCORE grant PI, George Littleton, PhD; Award Number S06 GM08016-34. 8/2003 – 6/2006; Total direct costs: \$105,000
6. Two-year Howard University New Faculty Award; PI, W. Malcolm Byrnes, PhD; Title: Cloning, Expression and Characterization of Chorismate-Utilizing Enzymes from *Streptomyces* Involved in Biosynthesis of Bioactive Compounds. 11/2001 – 6/2003; Total direct costs: \$50,000
7. Award from University to Renovate Research Laboratory in Room 4404 Adams Building. Spring 2002 - Spring 2003; Total cost: ~\$45,000

## PEER-REVIEWED PUBLICATIONS

\*indicates corresponding author(s)

1. **Byrnes WM.** (2020) E. E. Just's Broad, Yet Hidden, Influence on Modern Cell and Developmental Biology. *Molecular Reproduction and Development* 87: 380-391.
2. IN PREPARATION: Ashenafi M, Southerland WM, **Byrnes WM.\*** The Monomeric Anthranilate Synthase from *Streptomyces venezuelae*: Tryptophan-168 is Important for Transmission of Allosteric Signal but Not Inhibitor Binding (5-18-17)
3. IN PREPARATION: Ashenafi M and **Byrnes WM.\*** The Chorismate Site of Anthranilate Synthase from *Streptomyces venezuelae* (5-18-17)
4. **Byrnes WM.** (2015) E. E. Just and Creativity in Science: The Importance of Diversity. *Journal of African American Studies* 19: 264-278.
5. Ashenafi M, Reddy PT, Parsons JF and **Byrnes WM\*** (2015) The Fused Anthranilate Synthase from *Streptomyces venezuelae* Functions as a Monomer. *Molecular and Cellular Biochemistry* 400(1-2): 9-15.
6. **Byrnes WM\*** and Newman SA\* (2014) Ernest Everett Just: Egg and Embryo as Excitable Systems. *Journal of Experimental Zoology (Molecular and Developmental Evolution)* 322: 191-201.
7. Ashenafi M, Ammosova T, Nekhai S and **Byrnes WM\*** (2014) Purification and Characterization of Aminoglycoside Phosphotransferase APH(6)-Id, a Streptomycin Inactivating Enzyme. *Molecular and Cellular Biochemistry* 387: 207-216
8. **Byrnes WM** (2014) Climate Justice, Hurricane Katrina, and African American Environmentalism. *Journal of African American Studies* 18(3): 305-314.
9. Debebe Z, Nekhai S, Ashenafi M, Lovejoy DB, Kalinowski DS, Gordeuk VR, **Byrnes WM**, Richardson DR\* and Karla PK\* (2012) Development of a sensitive HPLC method to measure in vitro permeability of E- and Z-isomeric forms of thiosemicarbazones in Caco-2 monolayers. *Journal of Chromatography B* 906: 25-32.
10. **Byrnes WM** (2009) Ernest Everett Just, Johannes Holtfreter, and the Origin of Certain Concepts in Embryo Morphogenesis. *Molecular Reproduction and Development* 76(10): 912-921.
11. **Byrnes WM** (2009) Confessions of a 'Pro-Life' Obama Supporter. *The National Catholic Bioethics Quarterly* 9(2): 241-244.
12. Ashenafi M, Carrington R, Collins AC and **Byrnes WM\*** (2008) The Fused TrpEG from *Streptomyces venezuelae* is an Anthranilate Synthase, Not a 2-Amino-2-deoxyisochorismate (ADIC) Synthase. *Ethnicity and Disease* 18(2 Suppl 2): 9-13
13. **Byrnes WM** (2008) Direct Reprogramming and Ethics in Stem Cell Research. *The National Catholic Bioethics Quarterly* 8: 277-290.
14. Collins AC, Ashenafi M, Saunders AA and **Byrnes WM\*** (2007, first two authors equal) Cloning and Expression of Streptomycin-Inactivating Enzymes APH(6)-Ia and -Id. *Cellular and Molecular Biology* 53: 74-79.
15. Braun G,\* Hellwig M, **Byrnes WM** (2007) Global Climate Change and Catholic Responsibility: Facts and Faith Response. *The Journal of Catholic Social Thought* 4(2): 373-401.

16. **Byrnes WM** (2007) The Flawed Scientific Basis of the Altered Nuclear Transfer-Oocyte Assisted Reprogramming (ANT-OAR) Proposal. *Stem Cell Reviews and Reports* 3 :60-65
17. **Byrnes WM** (2007) Partial Trajectory: The Story of the Altered Nuclear Transfer-Oocyte Assisted Reprogramming (ANT-OAR) Proposal. *The Linacre Quarterly* 74(1): 50-59.
18. **Byrnes, WM\*** and Eckberg, WR (2006) Ernest Everett Just (1883-1941)—an Early Ecological Developmental Biologist. *Developmental Biology* 296: 1-11.
19. **Byrnes, WM** (2005) Why Human 'Altered Nuclear Transfer' is Unethical: A Holistic Systems View. *The National Catholic Bioethics Quarterly* 5(2): 271-279.
20. Ho DL, **Byrnes WM**, Ma W-P, Shi MY, Callaway DJE and Bu Z\* (2004) Structure-Specific DNA-induced Conformational Changes in *Taq* Polymerase Revealed by Small Angle Neutron Scattering. *Journal of Biological Chemistry* 279: 39146-39154.
21. **Byrnes WM\*** and Vilker VL (2004) Extrinsic Factors Potassium Chloride and Glycerol Induce Thermostability in Recombinant Anthranilate Synthase from *Archaeoglobus fulgidus*. *Extremophiles* 8: 455-462.
22. **Byrnes WM** (2003) The Ecological Imperative and Its Application to Ethical Issues in Human Genetic Technology. *Ethics in Science and Environmental Politics* 2003: 63-65. Available at: <http://www.int-res.com/articles/ese/2003/E36.pdf>
23. **Byrnes WM** (2003) Epigenetics, Evolution, and Us. *The National Catholic Bioethics Quarterly* 3(3): 489-500.
24. **Byrnes WM** (2001) Human Genetic Technology, Eugenics, and Social Justice. *The National Catholic Bioethics Quarterly* 1(4): 555-581.
25. **Byrnes WM**, Goldberg RN,\* Holden MJ, Mayhew MP and Tewari YB (2000) Thermodynamics of Reactions Catalyzed by Anthranilate Synthase. *Biophysical Chemistry* 84: 45-64.
26. Auzat I, **Byrnes M**, Garel J-R and Chang SH\* (1995, first two authors equal) Role of Residue 161 in the Allosteric Transitions of Two Bacterial Phosphofructokinases. *Biochemistry* 34: 7062-7068.
27. **Byrnes M**, Hu W, Younathan ES and Chang SH\* (1995) A Chimeric Bacterial Phosphofructokinase Exhibits Cooperativity in the Absence of Heterotropic Regulation. *Journal of Biological Chemistry* 270: 3828-3835.
28. Zhu X, **Byrnes M**, Nelson JW and Chang SH\* (1995) Role of Glycine 212 in the Allosteric Behavior of Phosphofructokinase from *Bacillus stearothermophilus*. *Biochemistry* 34: 2560-2565.
29. **Byrnes M**, Zhu X, Younathan ES and Chang SH\* (1994) Kinetic Characteristics of Phosphofructokinase from *Bacillus stearothermophilus*: MgATP Nonallosterically Inhibits the Enzyme. *Biochemistry* 33: 3424-3431.
30. Li J-Y, Zhu X, **Byrnes M**, Nelson JW and Chang SH\* (1993) Site-directed Mutagenesis of Rabbit Muscle Phosphofructokinase cDNA: Mutations at Glutamine 200 Affect the Allosteric Properties of the Enzyme. *Journal of Biological Chemistry* 268: 24599-24606.
31. Li J-Y, Chen Z, Lu L, **Byrnes M** and Chang SH\* (1991) Sequence Diversity in the 5'-untranslated Region of Rabbit Muscle Phosphofructokinase mRNA. *Biochemical and Biophysical Research Communications* 170: 1056-1060.

**NON-PEER-REVIEWED PUBLICATIONS (book reviews, magazine articles, newspaper articles, online articles, colloquy pieces, letters to the editor, etc.)**

1. **Byrnes WM.** (2016) Essay Review: Racial Thought and Racist Thinking: Historical and Contemporary Perspectives. *Journal of African American History* 101 (Winter-Spring issue): 150-163.
2. **Byrnes WM** (2016) Diversity is Critical for Scientific Progress. *ASBMB Today* (February issue): 27-28
3. **Byrnes WM** (2015). El precursor Olvidad de la Epigenética. *Investigación y Ciencia Junio* (465): 46-49. Available at: [https://www.researchgate.net/publication/277404246\\_El\\_precursor\\_olvidad\\_de\\_la\\_epigenetica](https://www.researchgate.net/publication/277404246_El_precursor_olvidad_de_la_epigenetica) Last accessed 6-27-23.
4. **Byrnes WM** (2015). The Forgotten Father of Epigenetics. *American Scientist* 103 (March-April issue): 106-109. Available at: <https://www.americanscientist.org/article/the-forgotten-father-of-epigenetics> Last accessed 6-27-23.
5. **Byrnes WM** (2015). A Xavier Chemistry Alumnus Looks Back. [Online]. *Xavier University of Louisiana (XULA) Department of Chemistry website* (April 15); Originally available on the XULA Chemistry Department website. Now available at: [https://www.researchgate.net/publication/275021540\\_A\\_Xavier\\_Chemistry\\_Alumnus\\_Looks\\_Back](https://www.researchgate.net/publication/275021540_A_Xavier_Chemistry_Alumnus_Looks_Back) Last accessed 6-27-23.
6. **Byrnes WM** (2015). Dr. Ernest Just's Legacy. In booklet: Reaves, Titus A. (ed.) *Ernest Everett Just, PhD: Outstanding African American Biologist of the 20th Century*. Charleston: Medical University of South Carolina Press, p.13.
7. **Byrnes WM,\*** Bethea G (2014) Interview: Highlighting the Legacy of E. E. Just. *Howard University Graduate School Research Magazine* 004 (April). Available at: [https://www.researchgate.net/publication/261473949\\_Interview\\_Highlighting\\_the\\_Legacy\\_of\\_Ernest\\_Everett\\_Just](https://www.researchgate.net/publication/261473949_Interview_Highlighting_the_Legacy_of_Ernest_Everett_Just) Last accessed 6-27-23.
8. **Byrnes WM** (2013) The Genius of Ernest Everett Just. *HBCU Speakers' Bureau and Research Magazine*, Issue 1 (2020; reprinted from the Howard University Graduate School Research Magazine, Issue 2, December 2013). Available at: <https://hbcuspbresearch.org/issue1.html> and [https://www.researchgate.net/publication/259196977\\_The\\_Genius\\_of\\_Ernest\\_Everett\\_Just](https://www.researchgate.net/publication/259196977_The_Genius_of_Ernest_Everett_Just) Last accessed 6-27-23.
9. **Byrnes WM** (2013) Opinion: A Diverse Perspective. Progress in Science is Dependent on the Diversity of Its Workforce. *The Scientist* (July 29); Available at: <http://www.the-scientist.com/?articles.view/articleNo/36733/title/Opinion--A-Diverse-Perspective/> Last accessed 6-27-23.
10. **Byrnes WM** (edited and translated into Italian by Luigia Santella; 2013) Sulle orme di E. E. Just alla Stazione Zoologica di Napoli: celebrazione di un'amicizia. *Research Italy website* (July 1). No longer available online (6-27-23).
11. **Byrnes WM** (2013) Walking in the Footsteps of Ernest Everett Just at the Stazione Zoologica in Naples: Celebration of a Friendship. *Howard University Newsroom* (June 11). No longer available on H.U. website; now available at: [https://www.researchgate.net/publication/258341600\\_Walking\\_in\\_the\\_Footsteps\\_of\\_Er](https://www.researchgate.net/publication/258341600_Walking_in_the_Footsteps_of_Er)

- [nest Everett Just at the Stazione Zoologica in Naples Celebration of a Friendship](#) Last accessed 6-27-23.
12. **Byrnes WM** (2012) Anacostia, Environmental Justice, and a Pipeline Protest. *The Association for Environmental Studies and Sciences (AESS) Newsletter* 4(1): 3-4.
  13. **Byrnes WM** (2012) Review: *African American Environmental Thought: Foundations* by Kimberly K. Smith. *Environmental History* 17(2): 442-443
  14. **Byrnes WM** (2010) Review: *A Moral Climate: The Ethics of Global Warming* by Michael S. Northcott. *The Journal for the Study of Religion, Nature and Culture* 4(4): 500-502.
  15. **Byrnes WM** (2010) A Biomedical Revolution: The Pro-Life Promise of a New Stem Cell Technology. *America: The National Catholic Weekly* (August 16-23 issue): 16-18. Available at: [http://americamagazine.org/sites/default/files/issues/cf/pdfs/745\\_1.pdf](http://americamagazine.org/sites/default/files/issues/cf/pdfs/745_1.pdf) Last accessed 6-27-23. Listen to the associated podcast at: <https://www.americamagazine.org/media/podcasts/toward-prolife-stem-cell-research> Last accessed 6-27-23.
  16. **Byrnes WM** (2010) Ernest Everett Just: Experimental Biologist *Par Excellence*. *ASBMB Today* (February issue): 22-25. Available at: <https://www.asbmb.org/asbmb-today/people/012510/ernest-everett-just> Last accessed on 6-27-23.
  17. **Byrnes WM** (2010) Life's Lineages (Review: *New Foundations of Evolution* by Jan Sapp). *American Scientist* 98(1): 81-83. Available at: <https://www.americanscientist.org/article/lifes-lineages> Last accessed 6-27-23.
  18. **Byrnes WM** (2009) Review: *Only a Theory: Evolution and the Battle for America's Soul* by Kenneth R. Miller. *Theology and Science* 7(4): 427-429.
  19. **Byrnes WM** (2009) Review: *DARWIN'S GIFT to Science and Religion* by Francisco Ayala. *The National Catholic Bioethics Quarterly* 9(4): 605-608.
  20. **Byrnes WM** (2009) Introduction to the Special Issue. *Molecular Reproduction and Development* 76(10): first page.
  21. **Byrnes WM** (2009) Comments on 'Moral Complicity in Induced Pluripotent Stem Cell Research'. *Kennedy Institute of Ethics Journal* 19(2): 202-205
  22. **Byrnes WM** (2008) Review: *The Panda's Black Box: Opening up the Intelligent Design Controversy* by Nathaniel Comfort (editor). *The National Catholic Bioethics Quarterly* 8(2): 385-387.
  23. **Byrnes WM** (2007) Review: *Challenging Nature: The Clash of Science and Spirituality at the New Frontiers of Life* by Lee M. Silver. *Worldviews: Environment, Culture, Religion* 11: 248-253.
  24. Leyser ML,\* Finley ML, Lee W, Munasinghe M, **Byrnes WM** and Bender FL (2007) The EcoRes Call for Action: Achieving Global Climate Justice in the 21st Century. *The EcoRes Forum: Exploring the Ethical, Political and Socio-Cultural Aspects of Climate Change*. No longer available online (6-27-23).
  25. **Byrnes WM** (2007) Just, Ernest Everett (1883-1941) in *The New Dictionary of Scientific Biography*, Koertge N, Ed. (Farmington Hills, MI: Charles Scribner's Sons/Gale Norton): 48-52.
  26. **Byrnes WM** (2007) Poem: Remembering Cicadas. *The Ecozoic Reader* 4(4): 84.
  27. **Byrnes WM** (2007) Colloquy Letter: ANT-OAR Misrepresents the Scientific Facts. *The National Catholic Bioethics Quarterly* 7(2): 226-227.

28. **Byrnes WM\*** and Granados J (2006) ANT-OAR Fails on All Counts: Method of Harvesting Stem Cells Riddled with Scientific and Ethical Flaws. *Science and Theology News* (June 2006): 23-25.
29. **Byrne WM** (2006) Colloquy Letter: Inconsistencies in the Pro-ANT-OAR Position. *The National Catholic Bioethics Quarterly* 6(2): 201-202.
30. **Byrnes WM** (2006) Review: *Deeper Than Darwin: The Prospect for Religion in the Age of Evolution* by John F. Haught. *The National Catholic Bioethics Quarterly* 6(1): 179-182
31. **Byrnes WM** (2005) Colloquy Letter: Holistic Systems and 'Delayed Hominization' Are Incompatible. *The National Catholic Bioethics Quarterly* 5(3): 447-448.
32. **Byrnes WM** (2005) Review: *Beyond Therapy: Biotechnology and the Pursuit of Happiness* by the U.S. President's Council on Bioethics. *The National Catholic Bioethics Quarterly* 5(1): 205-207.
33. GENBANK SUBMISSION: Collins AC and **Byrnes WM\*** (13 April 2005) Nucleotide Sequence of the Gene *aph(6)-Ia* from *Streptomyces griseus*. Accession No. AY971801
34. GENBANK SUBMISSION: Ashenafi M, Saunders AA, Sundin GW and **Byrnes WM\*** (25 April 2005) Nucleotide Sequence of the Gene *aph(6)-Id* from *Pseudomonas syringae* pv. *syringae*. Accession No. AY997127
35. **Byrnes WM** (2004) Letter to the Editor: Bioethics for the Present and the Future. *The Chronicle of Higher Education* 50(41): B18.
36. **Byrnes WM** (2004) Review: *Enough: Staying Human in an Engineered Age* by Bill McKibben. *The National Catholic Bioethics Quarterly* 4(3): 639-641.
37. **Byrnes WM** (2004) Review: *A Devil's Chaplain* by Richard Dawkins. *The National Catholic Bioethics Quarterly* 4(1): 216-218.
38. **Byrnes WM** (2004) Letter to the Editor: Mail Call: A Research Phobia? *Newsweek International* CXLIII (20): 5.
39. **Byrnes WM** (2003) Colloquy Letter: Holism, Determinism, and the Developing Embryo. *The National Catholic Bioethics Quarterly* 3(4): 664-665.
40. **Byrnes WM** (2003) Review: *Redesigning Humans: Our Inevitable Genetic Future* by Gregory Stock. *The National Catholic Bioethics Quarterly* 3(2): 427-429.
41. **Byrnes WM** (2002). Human Genetic Technology, Eugenics, and Social Justice (abridged version). *Issues in Law and Medicine* 18(1): 88-102.
42. **Byrnes WM** (2002) Review: *Can a Darwinian Be a Christian?: The Relationship between Science and Religion* by Michael Ruse. *The National Catholic Bioethics Quarterly* 2(3): 564-566.

## RECENT PRESENTATIONS (and interviews)

- *Speaker* in the H. U. Biochemistry and Molecular Biology departmental seminar series, April 20, 2023. The title of the talk, which was a journal club-style presentation: "Key Features of the Metazoan Gene Regulatory Ground State." Recording of talk is available on YouTube: <https://www.youtube.com/watch?v=suH6co99WZY>
- *Speaker* at the 2020 Bioengineering Colloquium hosted by the Department of Chemical and Biological Engineering at Princeton University, September 11, 2020. Title of talk: "The Genius of Ernest Everett Just." A recording is available on YouTube at:

[https://www.youtube.com/watch?v=sYslT6\\_bn8s&t=2789s](https://www.youtube.com/watch?v=sYslT6_bn8s&t=2789s) An announcement of the talk is available here: <https://cbe.princeton.edu/events/bioengineering-colloquium-virtual-seminar-genius-ernest-everett-just>

- *Interviewed* for “African American Biologists” segment (#10) of podcast “Speaking of Race,” February 28, 2018. Topic: Ernest Everett Just. Listen at: <http://speakingofrace.ua.edu/podcast/african-american-scientists> Last accessed 6-27-23
- *E. E. Just Lecturer* at the University of Chicago, Chicago, IL, November 17, 2016. Title of Talk: “E. E. Just’s Broad (and Hidden) Influence on the Development of Modern Biology.” See article about my talk in the University of Chicago student newspaper, the *Chicago Maroon*: <https://chicagomaroon.com/23295/news/annual-lecture-honors-african-american-biologist/> Last accessed 6-27-23.
- *Keynote speaker* for annual Juneteenth Celebration and Biennial Bullard Award Ceremony, Marine Biological Laboratory, Woods Hole, Massachusetts, June 17, 2016. Title of Talk: “E. E. Just’s Broad (and Hidden) Influence on the Development of Modern Biology.”
- *Speaker* in the H. U. Department of Anatomy seminar series, April 4, 2016. Title of talk: “E. E. Just’s Broad (and Hidden) Influence on the Development of Modern Biology.”
- *Invited Speaker* at the Ernest E. Just Scientific Symposium, Medical University of South Carolina, Charleston, February 26, 2016. Title of Talk: “E. E. Just’s Broad Influence on the Development of Modern Biology.” See photo of panel discussion on symposium’s Facebook site: <https://www.facebook.com/photo/?fbid=1747586685458062&set=pb.100080232984540.-2207520000>. Last accessed 6-27-23.
- *Presenter and Participant* for Twitter chat sponsored by the National Science and Technology News Service (NSTNS), February 26, 2015. Title of Conversation: “E. E. Just: Forgotten Father of Epigenetics.” Announcement by D. N. Lee (The Urban Scientist) at: <https://blogs.scientificamerican.com/urban-scientist/you-should-know-dr-ee-just-forgotten-father-of-epigenetics/> Last accessed 6-27-23.
- *Presenter*, Minority Health and Health Disparities Grantees’ Conference, National Harbor, MD, December 3, 2014. Title of poster presentation: “The Influence of E. E. Just on the Development of Modern Biology.”

## HONORS AND AWARDS

- *Provost’s Distinguished Service Award*, January 29, 2021.
- *Featured Faculty Member*, HBCU Speakers’ Bureau (Gwendolyn Bethea, Founder and President). See: <https://hbcuspbresearch.org/index.html> Last accessed 6-27-23.
- *Travel Award* from the Howard University College of Medicine’s Office of Faculty Development to attend the 6<sup>th</sup> International Conference of the Association of Biochemistry Educators (ABE) in Clearwater Beach, FL, on May 7-11, 2017

- *Featured Scientist* in the 2016 promotional booklet “Honoring the Legacy of Ernest Everett Just” published by the Ernest Everett Just Foundation, Inc. (EEJFI), whose mission is to promote STEM education among minority youth
- *Professionalism Recognition Award* (for teaching excellence), Howard University College of Pharmacy (2014)
- Faculty Merit Award, Howard University (2004 & 2006)
- H.U. Fund for Academic Excellence (FFAE) *Travel Award* to attend the 2005 meeting of the Society for Developmental Biology (SDB) in San Francisco, CA
- FFAE *Travel Award* to attend the 2003 meeting of the Society for Industrial Microbiology and Biotechnology (SIMB) in Minneapolis, MN
- Individual NIH-NRSA *Postdoctoral Fellowship Award* (1995-1996)
- *Robert S. and Louise P. Allen Award*, given annually to outstanding biochemistry doctoral student at Louisiana State University (1994)
- *Travel Award* from Louisiana State University Graduate School to attend and give a presentation at the 1994 meeting of the American Society for Biochemistry and Molecular Biology (ASBMB) in Washington, DC
- *summa cum laude* (g.p.a. 4.0) graduate with Honors in English, Xavier University of Louisiana; BS in Chemistry (American Chemical Society-certified degree; 1981)
- *Mother M. Agatha Ryan Award*, awarded to a senior who “has shown a high appreciation for the spirit and standards of the university through reverence, personal integrity, loyalty, service, and scholarship,” Xavier University (1981)
- *The Louis Israel Award*; the Xavier University Service Award for Seniors (1981)
- *Membership* in: Alpha Kappa Mu National Honor Society, Alpha Epsilon Honor Society, and Alpha Epsilon Delta Pre-Medical Honor Society
- The American Chemical Society (ACS) Award (1981)
- *X.U. Gold Medal Award* for highest academic achievement—all 4 years
- *ACS Undergraduate Analytical Award*; Marathon Oil Co. Award; German Award (1980)
- *Full-tuition scholarship* to Xavier University of Louisiana (all 4 years)

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

- American Association for the Advancement of Science (AAAS)
- Sigma Xi